

**Process, exchange, service computer, program module  
and interface device for transmitting telecommunications  
service data between an exchange and a service computer**

**Claims**

1. Process for transmitting telecommunications service data between an exchange (SW1) and a service computer (GPTM), wherein a subscriber (SUBA) with a terminal (TERA) can access a user interface (IGP) of the service computer  
5 (GPTM) via the Internet, wherein the subscriber can manipulate telecommunications service data via the user interface (IGP) and wherein the exchange (SW1) can provide telecommunications services with the aid of the telecommunications service data, characterised in that a  
10 connection (VGP) is established between the exchange (SW1) and the service computer (GPTM), and in that data for providing telecommunications services for the subscriber is transmitted on the connection between the exchange (SW1) and the service computer (GPTM) in the form of objects.  
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2. Process according to claim 1, characterised in that the objects are transmitted between the exchange and the service computer as object-request-broker objects.
- 20 3. Process according to claim 1, characterised in that an interface module (LPTM) is used for the connection (VGP) to the service computer (GPTM), which interface module is connected upstream of a service provision module (SM) of the exchange (SW1), of which the data  
25 for providing telecommunications services can also be manipulated by the subscriber via a telephone connection.
4. Process according to claim 1, characterised in that  
30 the service computer (GPTM) determines the object reference of the exchange (SW1) or in that the exchange (SW1)

determines the object reference of the service computer (GPTM) with the aid of a name server, and in that the objects are transmitted between the exchange (SW1) and the service computer (GPTM) with the aid of the respective  
5 object reference.

5. Process according to claim 1, characterised in that the service computer (GPTM) of the exchange (SW1) transmits configuration settings for telecommunications services as  
10 data for the provision of telecommunications services.

6. Process according to claim 1, characterised in that the service computer (GPTM) and the exchange (SW1) transmit, as data for the provision of telecommunications  
15 services, data with which the exchange (SW1) and the service computer (GPTM) can provide telecommunications services interactively.

7. Service computer (GPTM) for transmitting  
20 telecommunications service data between an exchange (SW1) and the service computer (GPTM), the service computer (GPTM) having a user interface (IGP) which a subscriber (SUBA) with a terminal (TERA) can access via the Internet and via which the subscriber  
25 can manipulate telecommunications service data with the aid of which the exchange (SW1) can provide telecommunications services, characterised in that the service computer (GPTM) has memories (MEMSC) which are designed in such a way that the service computer  
30 (GPTM) can store the telecommunications services data, in that the service computer (GPTM) has connecting means (TRSC) which are designed in such a way that the service computer (GPTM) can establish a connection (VGP) to the exchange (SW1), and in that the  
35 connecting means (TRSC) are furthermore designed in such a way that the service computer (GPTM) can transmit data for the provision of telecommunications

services for the subscriber on the connection to the exchange (SW1) in the form of objects.

8. Program module for a service computer (GPTM) for  
 5 transmitting telecommunications service data between  
 an exchange (SW1) and the service computer (GPTM)  
 which has a user interface (IGP) which a subscriber  
 (SUBA) with a terminal (TERA) can access via the  
 Internet and via which the subscriber can manipulate  
 10 telecommunications service data with the aid of which  
 the exchange (SW1) can provide telecommunications  
 services, the program module containing a program code  
 which can be implemented by a control means (CPUSC) of  
 the service computer (GPTM), characterised in that the  
 15 program module is designed in such a way that the  
 service computer (GPTM) can store the  
 telecommunications service data in a memory (MEMSC) in  
 accordance with the instructions of the program  
 module, in that the program module has connecting  
 20 means which are designed in such a way that the  
 service computer (GPTM) can establish a connection  
 (VGP) to the exchange (SW1) in accordance with the  
 instructions of the program module, and in that the  
 connecting means are furthermore designed in such a  
 25 way that the service computer (GPTM) can transmit data  
 for the provision of telecommunications services for  
 the subscriber on the connection to the exchange (SW1)  
 in the form of objects in accordance with the  
 instructions of the program module.

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9. Interface device (LPTM) for an exchange (SW1) for  
 transmitting telecommunications service data between the  
 exchange (SW1) and a service computer (GPTM) which has a  
 user interface (IGP) which a subscriber (SUBA) with a  
 35 terminal (TERA) can access via the Internet and via which  
 the subscriber can manipulate telecommunications service  
 data which can be used for the provision of

telecommunications services by a service provision means (SM) of the exchange (SW1), characterised in that the interface device (LPTM) has connecting means which are designed in such a way that the interface device (LPTM) or  
 5 the service computer (GPTM) can establish a connection (VGP) between the exchange (SW1) and the service computer (GPTM), and in that the interface device (LPTM) has transmitting and receiving means which are designed in such a way that the interface device (LPTM) can transmit data  
 10 for the provision of telecommunications services for the subscriber through the exchange (SW1) on the connection between the exchange (SW1) and the service computer (GPTM) in the form of objects.

15 10. Exchange with an interface device (LPTM) for transmitting telecommunications service data between the exchange (SW1) and a service computer (GPTM) which has a user interface (IGP) which a subscriber (SUBA) with a terminal (TERA) can access  
 20 via the Internet and via which the subscriber can manipulate telecommunications service data which can be used for the provision of telecommunications services by a service provision means (SM) of the exchange (SW1), characterised in that the interface  
 25 device (LPTM) has connecting means which are designed in such a way that the interface device (LPTM) or the service computer (GPTM) can establish a connection (VGP) between the exchange (SW1) and the service computer (GPTM), and in that the interface device  
 30 (LPTM) has transmitting and receiving means which are designed in such a way that the interface device (LPTM) can transmit data for the provision of telecommunications services for the subscriber through the exchange (SW1) on the connection between the  
 35 exchange (SW1) and the service computer (GPTM) in the form of objects.